

Applicant(s): Roman M. Chicz et al.

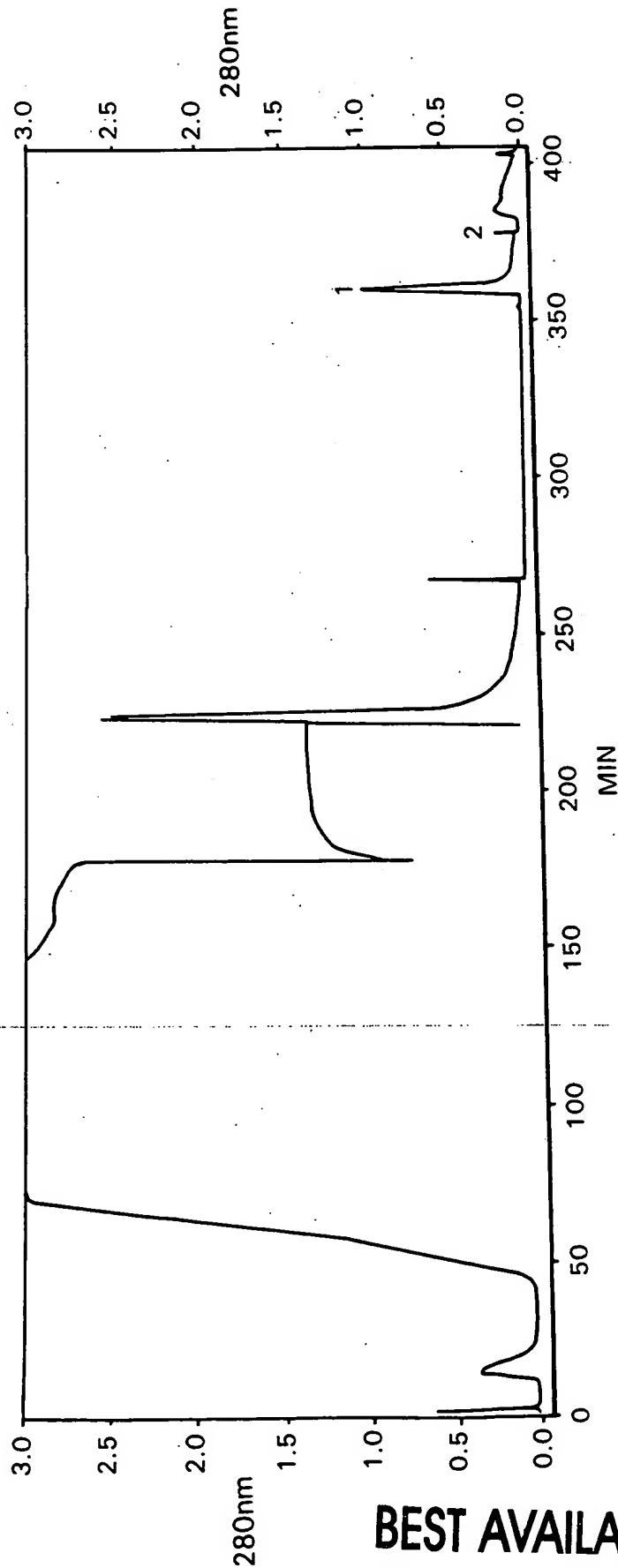
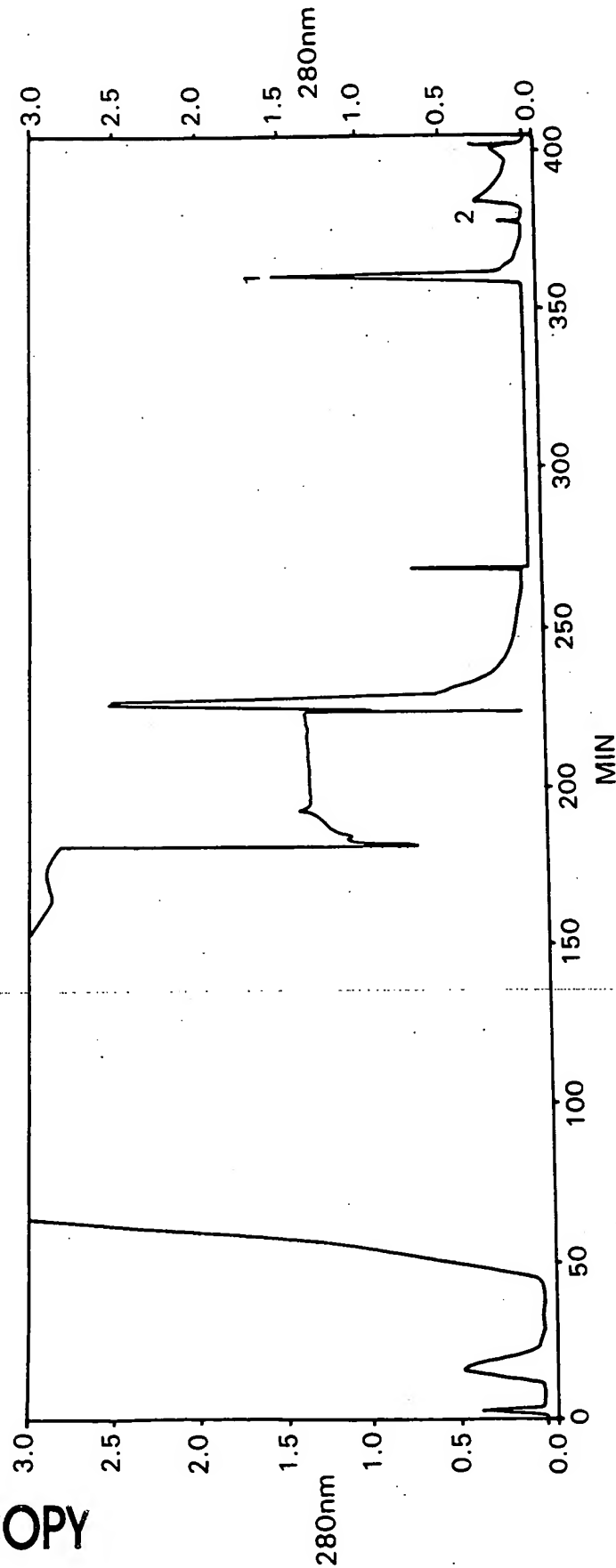
PROFILING AND CATALOGING EXPRESSED PROTEIN  
TAGS

FIG. 1A

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PROFILING AND CATALOGING EXPRESSED PROTEIN  
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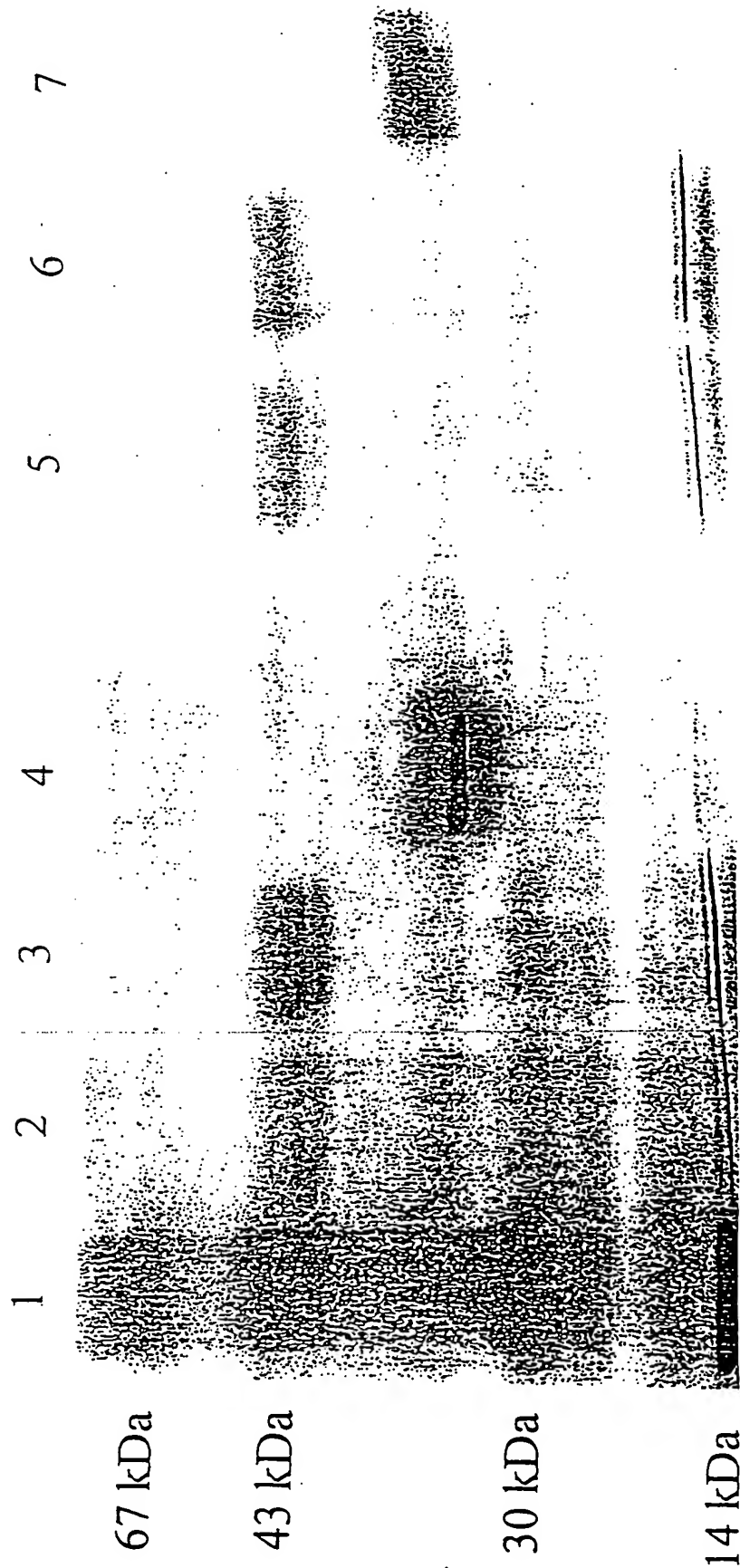
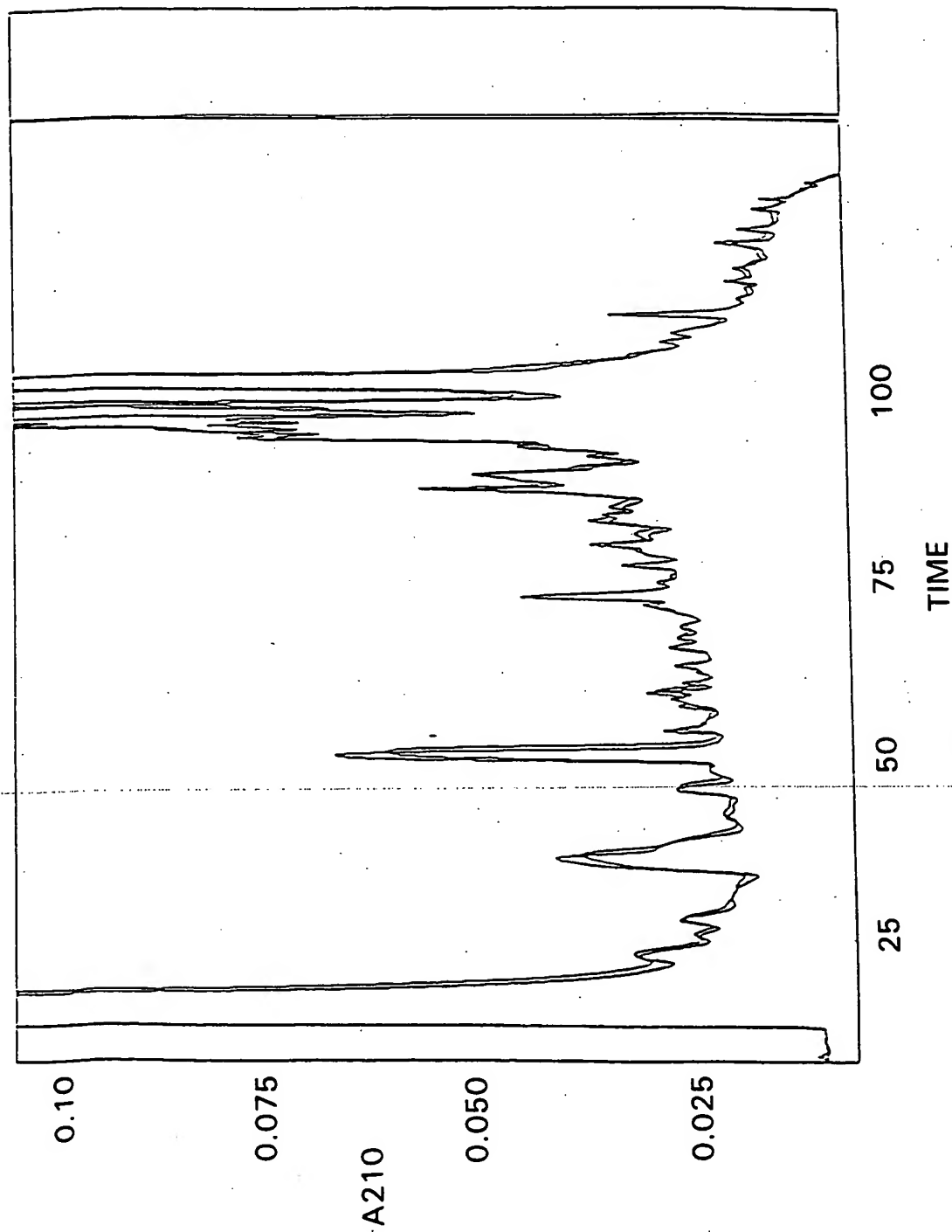


FIG. 2

**BEST AVAILABLE COPY****FIG. 3**

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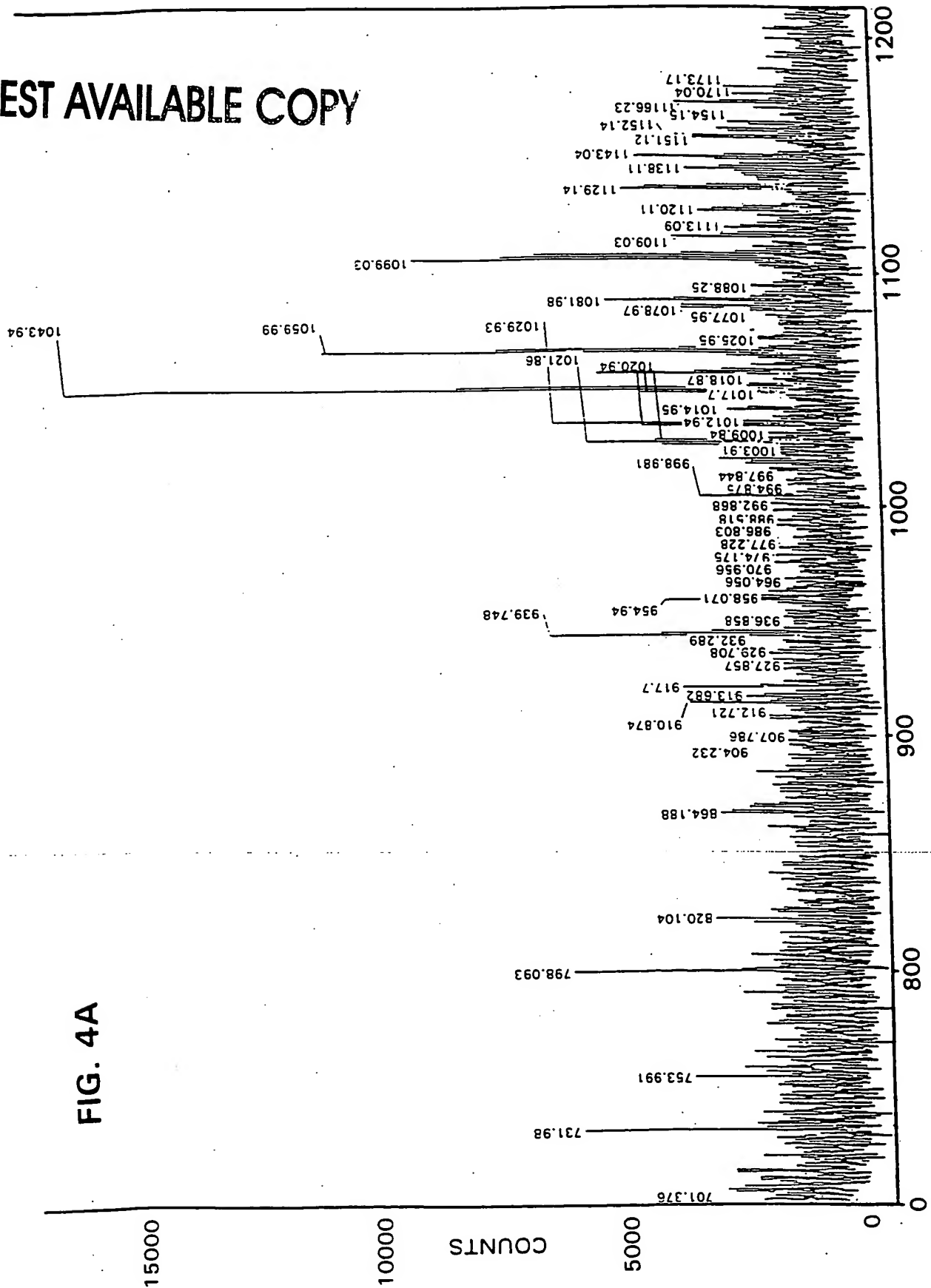
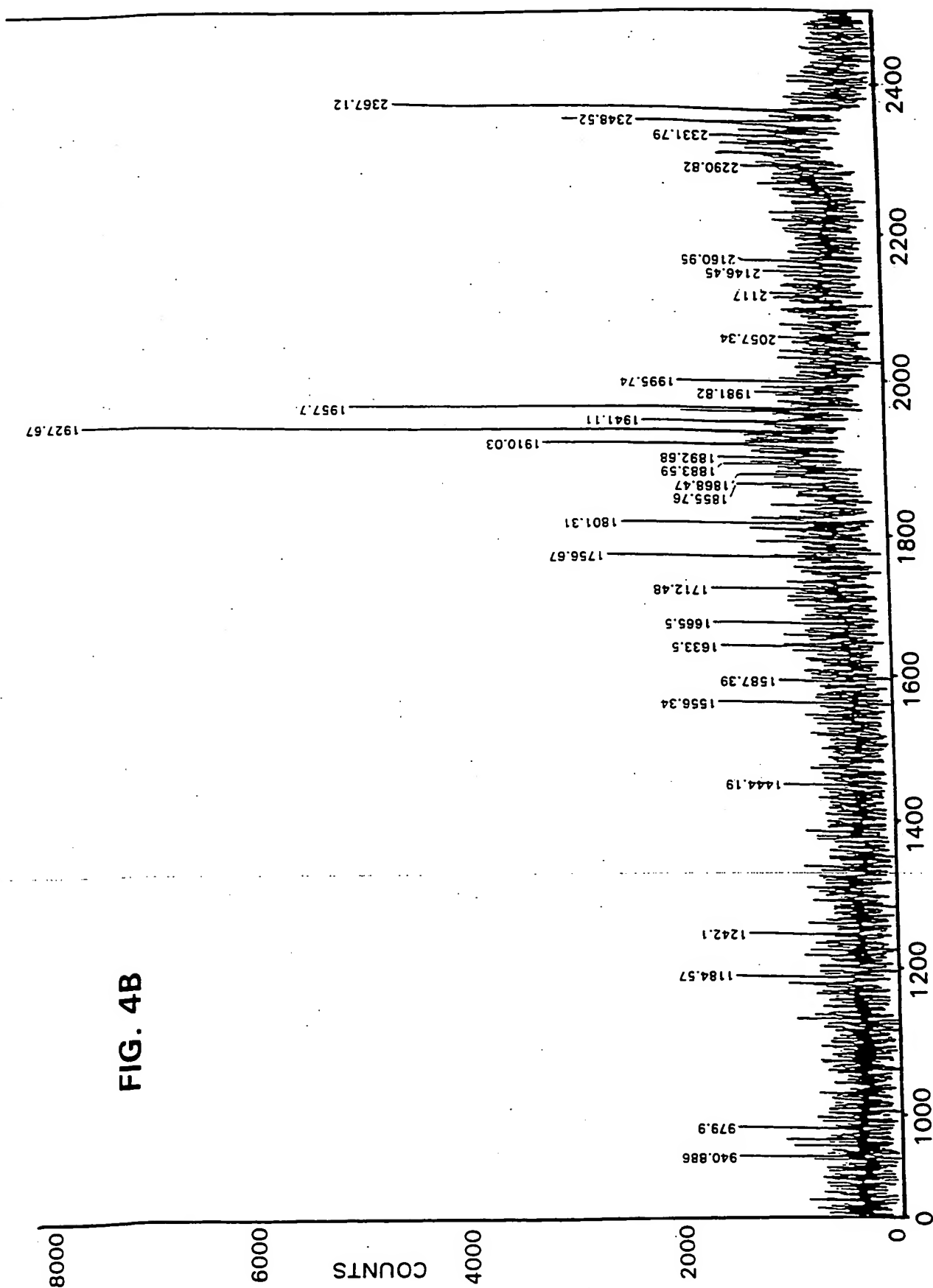
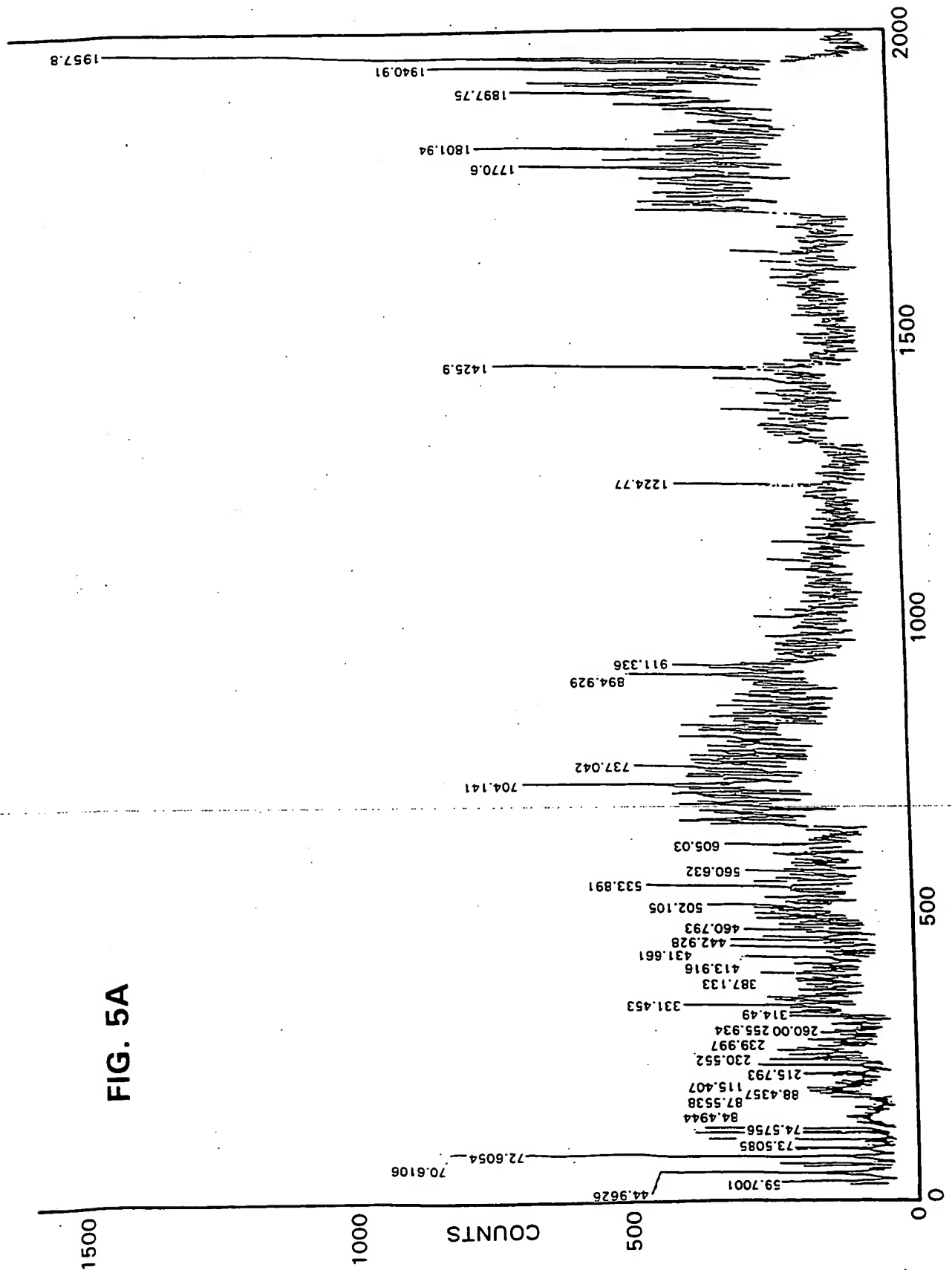


FIG. 4B



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Sample ID (comment): R4A3F37m1957

Database searched: NCBIhr.7.5.97

Molecular weight search (1000-100000 Da) selects 269572 entries.

Species search (HOMO SAPIENS) selects 22771 entries.

Combined molecular weight and species searches select 20933 entries.

Number of sequences passing through parent mass filter: 84015

Ion Types Considered: a b y n h i

search selects 257 entries

Search Mode	Max. # Unmatched Ions	Peptide Masses are Par(mI)Frag(av)	Digest Used	No enzyme	Max. # Cleavages	Missed	Cysteines Modified by unmodified	Peptide N terminus Hydrogen (H)	Peptide C terminus Free Acid (O II)
Identity	5				1				

Parent mass. 1957.2000 (+/-500.0000ppm)

Fragment Ions present: [RP]V[NR]IK[FSDR]

## Result Summary

Rank	MS-Digest Index #	NCBIhr.7.597 Accession #	Protein MW (Da)	Species	Calculated MH+ (Da)	MH+ Error (Da)	Sequence	# Unmatched Ions	Protein Name
1	240839	1839795	21251.4	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFSDAASQR(M)	2	(D82930) HLA-A26-variant
1	152874	915219	40679.8	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFSDAASQR(M)	2	(U25971) MHC class 1 antigen HLA-A2407
1	141923	825673	20921.2	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFSDAASQR(M)	2	(X82161) HLA-A alpha1 and alpha2 domains
1	159176	994765	41113.1	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFSDAASQR(M)	2	(D32129) HLA-A26
1	282322	250934	38703.4	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFSDAASQR(M)	2	(Z97370) human leukocyte antigen
1	133479	717123	40895.1	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFSDAASQR(M)	2	(U18930)MHC class 1 antigen HLA-A2
1	49436	785055	38355.8	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFSDAASQR(M)	2	(M160010) HLA-AH class 1 antigen (AA at 30)
1	277806	2394324	10423.4	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFSDAASQR(M)	2	(AF017310) MHC class 1 antigen
1	277805	2394322	10430.3	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFSDAASQR(M)	2	(AF017309) MHC class 1 antigen
1	277713	2394009	21027.3	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFSDAASQR(M)	2	(AF012767) MHC class 1 antigen HLA-A heavy chain

FIG. 5B

gb/RA548636/AA548636 n3 38d02.s1 NCI CGAP AAL Homo Sapiens cDNA clone IMAGE 994755 similar to gb:z46633 HLA CLASS I HISTOCOMPATIBILITY ANTIGEN, A-2 A\*0201 ALPHA (HUMAN);  
Length = 539

## Plus Strand HSPs:

Score = 30 (41.9 bits), Expect = 8.1e-05, p = 8.1e-05  
Identities = 18/18 (100%), Positives = 18/18 (100%), Frame = +2

Query: 1 VDDTQFVRFSDAASQRM 18  
VDDTQFVRFSDAASQRM  
Sbjct: 152 VDDTQFVRFSDAASQRM 205

gb/AA147151/AA147151 z032d06.r1 Stratagene colon (#937204) Homo sapiens cDNA clone 5885875 similar to gb:M64740 HLA CLASS I HISTOCOMPATIBILITY ANTIGEN, A-24 (A-9) A\*2402 ALPHA (HUMAN);  
Length = 581

## Plus Strands HSPs:

Score = 90 (41.9 bits), Expect = 8.1e-05, p = 8.1e-05  
Identities = 18/18 (100%), Positives = 18/18 (100%), Frame = +1

Query: 1 VDDTQFVRFSDAASQRM 18  
VDDTQFVRFSDAASQRM  
13 VDDTQFVRFSDAASQRM 66

gb/H23377/H23377 ym57e02.r1 Homo sapiens cDNA clone 52227 5'similar to gb:X00492 cds1 HLA CLASS I HISTOCOMPATIBILITY ANTIGEN, A-3A A\*0301 ALPHA (HUMAN);  
Length = 459

## Plus Strand HSPs:

Score = 90 (41.9 bits), Expect = 8.1e-05, p = 8.1e-05  
Identities = 18/18 (100%), Positives = 18/18 (100%), Frame = +1

Query: 1 VDDTQFVRFSDAASQRM 18  
VDDTQFVRFSDAASQRM  
Sbjct: 154 VDDTQFVRFSDAASQRM 207

gb/RI13904/RI13904 yf62c03.r1 Homo sapiens cDNA clone 26801 5'similar to gb:M64742 cds1 HLA CLASS I HISTOCOMPATIBILITY ANTIGEN, A-23(A-9) A\*2301 (HUMAN);  
Length = 459

## Plus Strand HSPs:

Score 90 (41.9 bits), Expect = 8.1e-05 p=8.1e-05  
Identities = 18/18 (100%), Positives = 18/18 (100%), Frame = +2

Query: 1 VDDTQFVRFSDAASQRM 18  
VDDTQFVRFSDAASQRM  
Sbjct: 146 VDDTQFVRFSDAASQRM 199

gb/RI20666/RI20666 yf54d10.r1 Homo sapiens cDNA clone 26062 5'similar to gb:X00492 cds1 HLA CLASS I HISTOCOMPATIBILITY ANTIGEN, A-3A\*0301 alpha (human);  
Length = 405

## Plus Strand HSPs:

Score = 90 (41.9 bits), Expect = 8.1e-05, p=9.1e-05  
Identities = 18/18 (100%), Positives=18/18(100%),Frame = +2

Query: 1 VDDTQFVRFSDAASQRM 18  
VDDTQFVRFSDAASQRM  
Sbjct: 158 VDDTQFVRFSDAASQRM 211

gb/AA132653/AA132653 z021a05.r1 Stratagene colon (#937204) Homo sapiens cDNA clone 587504 5' similar to gb:z46633 HLA CLASS I HISTOCOMPATIBILITY ANTIGEN, A-2 A\* 0201 ALPHA (HUMAN);  
Length = 428

## Plus Strand HSPs:

Score = 90 (41.9 bits), Expect = 8.1e-05, p=8.1e-05  
Identities = 18/18 (100%) Positives=18/18(100%) Frame = +3

Query: 1 VDDTQFVRFSDAASQRM 18  
VDDTQFVRFSDAASQRM  
Sbjct: 158 VDDTQFVRFSDAASQRM 203

gb/R59764/R59764 yh07c05.r1 Homo sapiens cDNA clone 42563 5'similar to gb:X00492 cds1 HLA CLASS I HISTOCOMPATIBILITY ANTIGEN, A-3 A\* 0301 ALPHA (HUMAN);  
Length = 461

## Plus Strands HSPs:

Score = 90 (41.9 bits), Expect = 8.1e-05, p = 8.1e-05  
Identities = 18/18 (100%), Positives = 18/18 (100%), Frame =+1

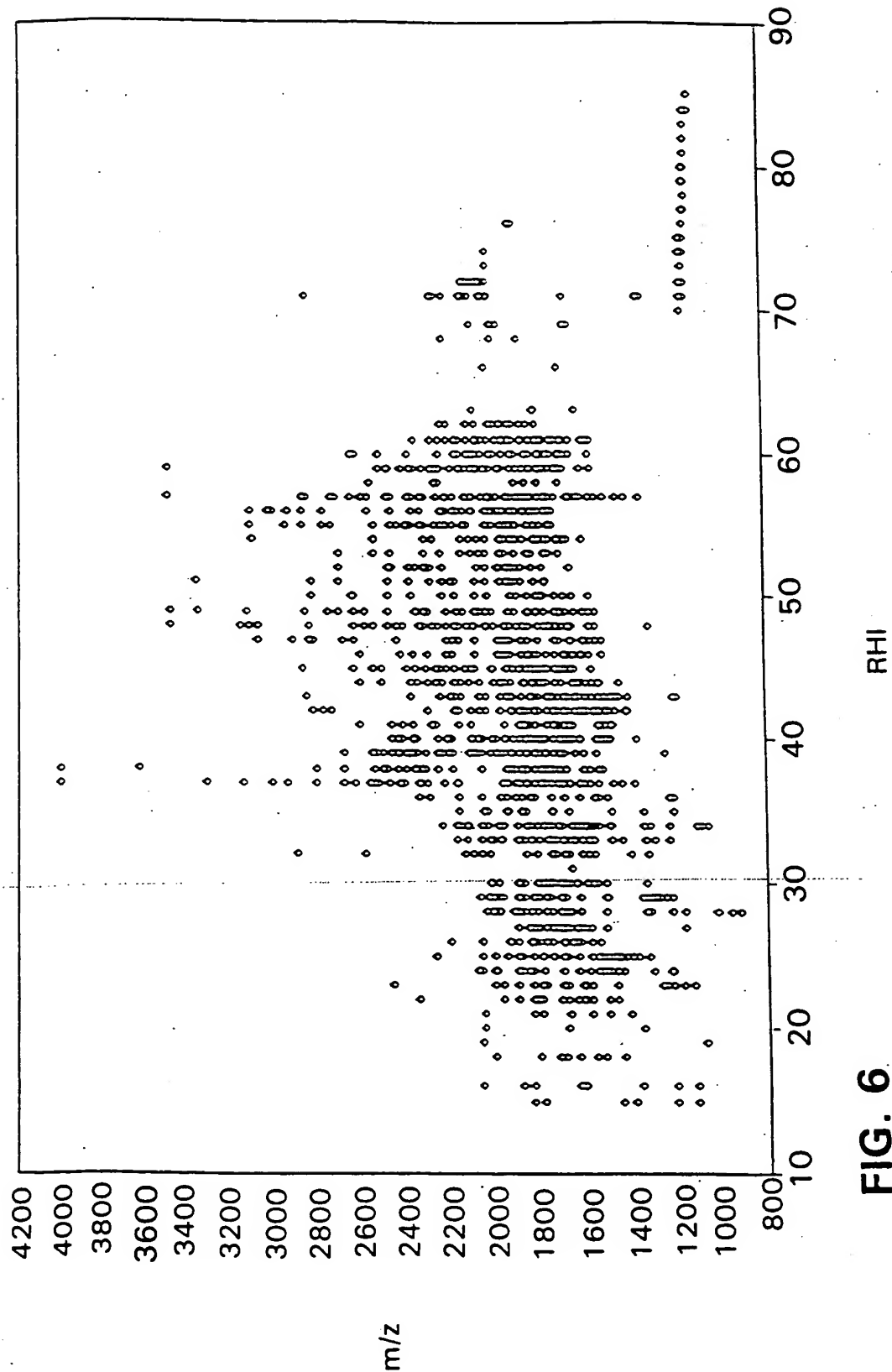
Query: 1 VDDTQFVRFSDAASQRM 18  
VDDTQFVRFSDAASQRM  
138 VDDTQFVRFSDAASQRM 210

gb/AA188534/AA188534 ab37f08.r1 Stratagene Hela cell s3 937216 Homo sapiens cDNA clone 843015 5' similar to gb:L06425 HLA CLASS I HISTOCOMPATIBILITY ANTIGEN, A-34(A-10) A\*3402 ALPHA (HUMAN);  
Length = 478

## Plus Strand HSPs:

Score = 90 (41.9 bits), Expect = 8.1e-05, p = 8.1e-05  
Identities = 18/18 (100%), Positives = 18/18 (100%), Frame = +3

Query: 1 VDDTQFVRFSDAASQRM 18  
VDDTQFVRFSDAASQRM  
Sbjct: 138 VDDTQFVRFSDAASQRM 191

**BEST AVAILABLE COPY****FIG. 6**